

**Abstract**

A process for the production of a molecular sieve adsorbent blend product with improved performance characteristics produced by preparing a zeolite powder, 5 preparing a highly dispersed attapulgite fiber binder, mixing the zeolite powder with the highly dispersed attapulgite binder to form a mixture, forming molecular sieve adsorbent products into a shaped material and calcining the shaped material, wherein the tapped bulk density of the highly dispersed attapulgite fibers measured 10 according to DIN/ISO 787 is more than about 550 g/ml.

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